| TO! | • | |
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| F19 | 1. | |
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| SEQID22 SEQID23 | MILLIGAVILLLAIPGHDQETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG | 60 |
|--------------------|--|-----|
| SEQID23 SEOID24 | MLLLGAVLLLLALPGHDQETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG | |
| SEOID25 | MILICAULLIA DE DE DE TENENCE DE LA LES DE CARROLA CARR | 60 |
| SEQIDZS | MLLLGAVLLLLALPGHDQETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDG | 60 |
| | | |
| SEQID22 | TPGEKGEKGDPGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE | 120 |
| SEQID23 | MPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE | 36 |
| SEQID24 | TPGEKGEKGDPGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGA | 108 |
| SEQID25 | TPGEKGEKGDPGLIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLE | 120 |
| | | |
| SEQID22 | TYVTIPNMPIRFTKIFYNQQNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDK | 180 |
| SEQID23 | TYVTIPNMPIRFTKIFYNQQNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDK | 96 |
| SEQID24 | | 108 |
| SEQID25 | TYVTIPNMPIRFTKIFYNQQNHYDGSTGKFHCNIPGLY | 158 |
| | | |
| SEQID22 | AMLFTYDQYQENNVDQASGSVLLHLEVGDQVWLQVYGEGERNGLYADNDND-STFTGF | 237 |
| SEQID23 | AMLFTYDQYQENNVDQASGSVLLHLEVGDQVWLQVYGEGERNGLYADNDND-STFTGF | 153 |
| SEQID24 | LLS-PTCPFALPRSSTISKTTMMAPLVNSTATFLGC | 143 |
| SEQID25 | | 158 |
| | | |
| SEQID22 | LLYHDTN 244 | |
| SEQID23 | LLYHDTN 160 | |
| SEQID24 | TT-LP-TTSOSI- 153 | |
| SEQID25 | LHRLSSLP 166 | |
| | | |

Fig 2.

| SEQID28 | MLLLQALLFLLILPSHAEDDVTTTEELAPALVPPPKGTCAGWMAGIPGHPGHNGTPGRDG | |
|------------------|--|-----|
| SEQID30 | MLLLQALLFLLILPSHAEDDVTTTEELAPALVPPPKGTCAGWMAGIPGHPGH | |
| SEQID29 | MLLLQALLFLLILPSHAEDDVTTTEELAPALVPPPKGTCAGWMAGIPGHPGHNGTPGRDG | |
| SEQID26 | | 60 |
| SEQID27 | | |
| | | |
| SEOID28 | TPGEKGEKGDAGLLGPKGETGDVGMTGAEGPRGFPGTPGRKGEPGEAAAASL | 227 |
| SEOID30 | | 117 |
| | | |
| | RDGTPGEKGEKGDAGLLGPKGETGDVGMTGAEGPRGFPGTPGRKGEPGEAAYMYRSAFSV | 110 |
| | | |
| SEQID27 | mtgaegprgfpgtrgepgeaaiviksafsv | 33 |
| | | |
| SEQID28 | | 109 |
| SEQID30 | | 52 |
| SEQID29 | | 110 |
| SEQID26 | GLETRVTVPNVPIRFTKIFYNQQNHYDGSTGKFYCNIPGLYYFSYHITVYMKDVKVSLFK | 180 |
| SEQID27 | ${\tt GLETRVTVPNVPIRFTKIFYNQQNHYDGSTGKFYCNIPGLYYFSYHITVYMKDVKVSLFK}$ | 93 |
| | | |
| SEOID28 | | 118 |
| SECTED 30 | FEGHPPG | 63 |
| SEOID29 | VYRSAFSVGLETRVTVP | 129 |
| | KDKAVLFTYDQYQEKNVDQASGSVLLHLEVGDQVWLQ | |
| SEOID27 | KDKAVLFTYDOYOEKNVDQASGSVLLHLEVGDOVWLQ | |
| | | |
| mornan | FALLRSSTTNRIIMTAALASSTATFRDSTTSLTTSRCT 156 | |
| EQID28 EQID30 | RLNCAKIWHFLQD76 | |
| | NVPIRFTKIFYNOON-HYDGSTGKFYCNIPGLYIYWLSSLP 169 | |
| | | |
| | VYGDGDHNGLYADNVNDSTFTGFLLYHDTN 247 | |
| EQID27 | VYGDGDHNGLYADNVNDSTFTGFLLYHDTN 160 | |

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| Fig 3. | | | |
| SEQID31 SEQID32 | MPSPGTVCSLLLLGMLWLDLAMAGSSFLSPEHQRVQQRKESKKP44 MPSPGTVCSLLLLGMLWLDLAMAGSSFLSPEHQRVQVRPPHKAP | | |
| SEQID31 SEQID32 | PAKLQPRALAGWLRPEDGGQAEGAEDELEVRFNAPFDVGIKLSGVQYQQHSQALGKFLQD 104 PALPLSNQLCDLPQQRHWASVFSQSTKDSGSDLTVJGRTWGLRV91 | | |
| SEQID31 SEQID32 | ILMEEAKEAPADK 117 LNRLPPPSSRERSRRSHQPSCSPEL 116 | | |
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| Fig 4. | | |
|---------|---|---|
| SEQID33 | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAH 60 | |
| SEQID38 | MLQGKKVIVTGASKGIGREMAYHLAKMGAH 30 | |
| SEQID36 | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAH 60 | |
| SEQID35 | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAH 60 | |
| SEQID37 | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAH 60 | |
| SEQID39 | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAH 60 | |
| SEQID34 | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAH 60 | |
| SEQID33 | VVVTARSKETLOKVVSHCLELGAASAHYIAGTMEDMTFAEOFVAOAGKLMGGLDMLILNH 12 | ^ |
| SEOID38 | VVVTARSKETLOKVVSHCLELGAASAHYIAGTMEDMTFAEOFVAOAGKLMGGLDMLILNH 90 | |
| SEOID36 | VVVTARSKETLQKVVSHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGLDMLILNH 12 | |
| SEOID35 | VVVTARSKETLOKVVSHCLELGAASAHYIAGTMEDMTFAEOFVAOAGKLMGGLDMLILNH 12 | |
| SEOID37 | VVVTASSAHYIAGTMEDMTFAEOFVAOAGKLMGGLDMLILNH 10 | |
| SEOID39 | VVVTARSKETLOKVVSHCLELGAASAHYIAGTMEDMTFAEOFVAOAGKLMGGLDMLILNH 12 | |
| SEOID34 | VVVTASSAHYIAGTMEDMTFAEOFVAOAGKLMGGLDMLILNH 10 | |
| 22023 | TOTAL | - |
| SEQID33 | ITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAALPMLKQSNGSIVVVSSLAGKVAYPMV 18 | 0 |
| SEQID38 | ITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAALPMLKQSNGSIVVVSSLAGKVAYPMV 15 | |
| SEQID36 | ITNTSLNLFHDDIHHVRPMLKQSNGSIVVVSSLAGKVAYPMV 16 | |
| SEQID35 | ITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAALPMLKQSNGSIVVVSSLAGKVAYPMV 18 | |
| SEQID37 | ITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAALPMLKQSNGSIVVVSSLAGKVAYPMV 16 | |
| SEQID39 | ITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAALPMLKQSNGSIVVVSSLA 17 | |
| SEQID34 | ITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAALPMLKQSNGSMCAL 15 | 0 |
| SEOID33 | AAYSASKFALDGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMKAVSGIVHMOAAPKEE 24 | ^ |
| SEOID38 | AAYSASKFALDGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMKAVSGIVHMOAAPKEE 21 | |
| SEOID36 | AAYSASKFALDGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMKAVSGIVHMOAAPKEE 22 | |
| SEOID35 | AAYSASKFALDGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMKAVSGIVHMOAAPKEE 24 | |
| SEOID37 | AAYSASKFALDGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMKAVSGIVHMOAAPKEE 22: | |
| SEQID39 | ETAMKAVSGIVHMOAAPKEE 19 | |
| SEQID34 | LLECYHVVHLSSX 16 | |
| | | |
| SEQID33 | CALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK 292 | |
| SEQID38 | CALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK 262 | |
| SEQID36 | CALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK 274 | |
| SEQID35 | CALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMEGLFCLMFI 295 | |
| SEQID37 | CALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK 274 | |
| SEQID39 | CALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK 244 | |

SEQID34

Fig 5.

| SEQID40 SEQID41 SEQID42 | MAVMKNYLLPILVLFLAYYYSTNEEFRPEMLQGKKVIVTGASKGIGREMAYHLSKMGAH MAVMKNYLLPILVLFLAYYYYSTNEEFRPEMLQGKKVIVTGASKGIGREMAYHLSKMGAH MAVMKNYLLPILVLFLAYYYYSTNEEFRPEMLQGKKVIVTGASKGIGREMAYHLSKMGAH | 18 |
|-------------------------------|--|-------------------|
| SEQID40 SEQID41 SEQID42 | VULTARSEEGLQKVVSRCLELGAASAHYIAGTMEDMTFAEQFIVKAGKLMGGLDMLILNH YYYSTNEEFRLQKVVSRCLELGAASAHYIAGTMEDMTFAEQFIVKAGKLMGGLDMLILNH VVLTARSEEGLQKVVSRCLELGAASAHYIAGTMEDMTFAEQFIVKAGKLMGGLDMLILNH | 78 |
| SEQID40 SEQID41 SEQID42 | ITOTSLSLEHDDIHSVRRVMEVNFLSYVVMSTAALPMLKQSNGSIAVISSLAGKMTQPMI ITOTSLSLEHDDIHSVRRVMEVNFLSYVVMSTAALPMLKQSNGSIAVISSLAGKMTQPMI ITOTSLSLEHDDIHSVRRVMEVNFLSYVVMSTAALPMLKQSNGSIAVISSLAGGRTVPQQ | 138 |
| SEQID40 SEQID41 SEQID42 | APYSASKFALDGFFSTIRTELYITKUNVSITLCVLGLIDTETAMKEISGIINAQASPKEE APYSASKFALDGFFSTIRTELYITKVNVSITLCVLGLIDTETAMKEISGIINAQASPKEE RSRSVTPDSRGP | 240 198 192 |
| SEQID40 SEQID41 SEQID42 | CALEIIKGTALRKSEVYYDKSPLTPILLGNPGRKIMEFFSLRYYNKDMFVSN 292 CALEIIKGTALRKSEVYYDKSPLTPILLGNPGRKIMEFFSLRYYNKDMFVSN 250 | |

| Fig 6. | • |
|------------------|---|
| SEQID1 | CTGATTCCATACCAGAGGGGCTCAGGATGCTGTTGCTGGGAGCTGTTCTACTGCTATTAG |
| SEOID2 | , |
| SEOID3 | |
| SEQID4 | , |
| SEQID1 | CTCTGCCCGGGCATGACCAGGAAACCACGACTCAAGGGCCCGGAGTCCTGCTTCCCCTGC |
| SEOID2 | |
| SEOID3 | |
| SEQID4 | |
| SEOID1 | CCAAGGGGGCCTGCACAGGTTGGATGGCGGGCATCCCAGGGCATCCGGGCCATAATGGG |
| SEOID2 | COANGOGGCCTGCACAGGTTGGATGGCGGGCATCCCAGGGCATCCCGGGCCATAATGGGG |
| SEQID2 | |
| SEOID4 | , |
| | |
| SEQID1 | CCCCAGGCCGTGATGGCAGAGATGGCACCCCTGGTGAGAAGGGTGAGAAAGGAGATCCAG |
| SEQID2 | ATG |
| SEQID3 | CTGATTCCAT |
| SEQID4 | |
| SEOID1 | GTCTTATTGGTCCTAAGGGAGACATCGGTGAAACCGGAGTACCCGGGGCTGAAGGTCC |
| SEQID2 | ACCCGGGGCTGAAGGTCC |
| SEQID3 | ACCAGAGGGCTCAGGATGC |
| SEQID4 | ACCAGAGGGCTCAGGATGC |
| SEQID1 | CCGAG-GCT-TTCCGGG-AATCCAAGGCAGGAA-AGGAGAACCTGG |
| SEQID2 | CCGAG-GCT-TTCCGGG-AATCCAAGGCAGGAA-AGGAGAACCTGG |
| SEQID3 | TGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCCGGGCATGACCAGGA-AACCACG |
| SEQID4 | TGTTGCTGGGAGCTGTTCTACTGCTATTAGCTCTGCCCGGGCATGACCAGGA-AACCACG * * * * *** * * * * * * * * * * * * * |
| SEQID1 | AGAAGGTGCCTATGTATACCGCTCAGCATTCAGTG-TGGGATTGGA |
| SEQID2 | AGAAGGTGCCTATGTATACCGCTCAGCATTCAGTG-TGGGATTGGA |
| SEQID3 | ACTCAAGGGCCCGGAGTCCTGCTTCCCCTGCCCAAGGGGCCTGCACAGGTTGGATGGCG |
| SEQID4 | ACTCAAGGGCCCGGAGTCCTGCTTCCCCTGCCCAAGGGGCCCTGCACAGGTTGGATGGCG * *** ** ** ** ** ** ** ** ** ** ** ** |
| SEQID1 | GACTTACGTTACTATCCCCAACATGCCCATTCGCTTTACCAAGAT |
| SEQID2 | GACTTACGTTACTATCCCCAACATGCCCATTCGCTTTACCAAGAT |
| SEQID3 | GGCATCCCAGGGCATCCGGGCCATAATGGGGCCCCAGGCCGTGATGGCAGAGATGGCACC |
| SEQID4 | GGCATCCCAGGGCATCCGGGCCATAATGGGGCCCCCAGGCCGTGATGGCAGAGATGGCACC * * * * * * * * * * * * * * * * * * * |
| SEQID1 | -CTTCT-ACAATCAGCAAAACCAC-TATGATGGCTCCACTGGTAAATTCCACT |
| SEQID2 | -CTTCT-ACAATCAGCAAAACCAC-TATGATGGCTCCACTGGTAAATTCCACT |
| SEQID3 | CCTGGTGAGAAGGGTGAGAAAGGAGATCCAGGTCTTATTGGTCCTAAGGGAGACATCGGT |
| SEQID4 | CCTGGTGAGAAGGGTGAGAAAGGAGATCCAGGTCTTATTGGTCCTAAGGGAGACATCGGT |
| | |
| SEQID1 | GCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATGAA |
| SEQID2 | GCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATGAA |
| SEQID3 SEOID4 | GAAACCGGAGTACCCGGGGCTGAAGGTCCCCGAGGCTTTCCGGGAATCCA-AGGCA GAAACCGGAGTACCCGGGGCTGAAGGTCCCCGAGGCTTTCCGGGAATCCA-AGGCA |
| SEGIDA | * *** * * ** ***** * * * * * * * * * * |
| SEQID1 | GGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCA |
| SEQID2 | GGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCA |
| SEQID3 | GGAAAGGAGAACCTGGAGAAGGTGC |
| SEQID4 | GGAAAGGAGAACCTGGAGAAGGTGCCTATGTATACCGCTCAGCA |
| SEOTO: | CM \$ CC \$ C C \$ \$ \$ \$ M \$ M CMC C \$ CC \$ C C C CMC C C C CMC M C M C C C C M C |

| SEOID2 | GTACCAGGAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGT | |
|------------------|--|--|
| SEOID3 | GTTACTATCC-CCAACATGCCCATTC | |
| SEOID4 | TT-CAGTGTGGGATTGGAGACTTACGTTACTATCC-CCAACATGCCCATTC | |
| SEGIDA | 11CAG | |
| | ^ ** * * * * * * * * * * * * * * * * * | |
| | | |
| SEQID1 | GGGCGACCAAG-TCTGGCTCCAGGTGTATGGGGAAGGAGGGGTAATGGACTCTATGCTG | |
| SEQID2 | GGGCGACCAAG-TCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTG | |
| SEQID3 | GCTTTACCAAGATCTT-CTACAATCAGCAAAACCACTATGATGG-CTCCACTG | |
| SEQID4 | GCTTTACCAAGATCTT-CTACAATCAGCAAAACCACTATGATGG-CTCCACTG | |
| | * ***** ** ** ** ** * * * * * * * * * ** | |
| | | |
| SEOID1 | ATAA-TGACAATGACTCCACAC | |
| SEOID2 | ATAA-TGACAATGACTCCACAC | |
| SEOID3 | GTAAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATA | |
| | | |
| SEQID4 | GTAAATTCCACTGCAACATTCCTGGGCTGTAC | |
| | *** * ** ** * *** ** | |
| | | |
| SEQID1 | | |
| SEQID2 | | |
| SEQID3 | TGAAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATC | |
| SEQID4 | | |
| | | |
| | | |
| SEQID1 | | |
| SEOID2 | | |
| SEOID3 | AGTACCAGGAAAATGATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGG | |
| SEOID4 | | |
| DEGID. | : | |
| | | |
| SEOID1 | | |
| SEQIDI SEQID2 | | |
| SEOID3 | | |
| SEQIDS SECID4 | GCGACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGCGTAATGGACTCTATGCTGATA | |
| SEQID4 | | |
| | | |
| | | |
| SEQID1 | CTTCACAGGCTTTCTTCTCTACCATGACACCAACTGATCACCAC | |
| SEQID2 | CTTCACAGGCTTTCTCTCTCACCATGACACCAACTGA | |
| SEQID3 | ATGACAATGACTCCACCTTCACAGGCTTTCTTCTCTACCATGACACCAACTGA | |
| SEQID4 | CTTCACAGGCTTTCTTCTCTACCATGACACTGA | |
| | *********** | |
| | | |
| SEOID1 | TAACTCAGAGCCTCCTCCAGGCCAAACAGCCCCAAAGTCAATTAAAGGCTTTCAGTACGG | |
| SEOID2 | | |
| SEOID3 | | |
| SEOID4 | | |
| | | |
| | | |
| SEOID1 | TTAGGAAGTTGATTATTTAGTTGGAGGCCTTTAGATATTATTCATTC | |
| SEOID2 | | |
| SEOID3 | | |
| SEOID3 | | |
| 2EQID4 | | |
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| l | Fig 7. | | |
| | SEQID5 | ATGAGACCTGGCCACTTTCTCCCCATTTCTGTCTGTACGATTGTCAGTGGATCTGACGAC 60 | |
| | SEQID6 SEOID7 | ATGAGACCTGGCCACTTTCTCCTCATTTCTGTCTGTACGATTGTCAGTGGATCTGACGAC 60 | * |
| | SEQID8 | | |
| | SEQID9 | | |
| | | | |
| | SEQID5 | ACCAAAAGGGCTCAGGATGCTACTGTTGCAAGCTCTCCTGTTCCTCTTAATCCTGCCCAG 120 | |
| | SEQID6 | CCCATAAAGGCTTTGAAAACTAAGGCTGGAGATGAACTTATAGGAGCCTGCCAGG 76 | |
| | SEQID7 | ACCAAAAGGGCTCAGGATGCTACTGTTGCAAGCTCTCCTGTTCCTCTTAATCCTGCCCAG 120 | |
| | SEQID8 SEQID9 | | |
| | 028233 | | |
| | SEOID5 | TCATGCCGAAGATGACGTTACTACAACTGAAGAGCTAGCT | |
| | SEQID6 | CCGTGGAGAGTGAGGAAGCAGAGATGACGGAGATGATGTCTTTCCTTGTCCTGTGA 132 | |
| | SEQID7 | TCATGCCGAAGATGACGTTACTACAACTGAAGAGCTAGCT | |
| | SEQID8 SEOID9 | | |
| | 250103 | | |
| | SEOID5 | CAAGGGAACTTGTGCAGGTTGGATGGCAGGCATCCCAGGACATCCTGGCCACAATGGCAC 240 | |
| | SEQID6 | -AATGGATTGTGGGTAGAGGTTCCGGAGATAATGCCTCTTGCTGGAAACAGT 183 | |
| | SEQID7 | CAAGGGAACTTGTGCAGGTTGGATGGCAGGCATCCCAGGACATCCTGGCCACAATGGCAC 240 | |
| | SEQID8 | | |
| | SEQID9 | | |
| | SEOID5 | ACCAGGCCGTGATGGCAGAGATGGCACTCCTGGAGAGAGGGAGAGAAAGGAGATGCAGG 300 | |
| | SEQID6 | -CTGGGCAGTTCTGTTCCCGCCATTCACAGAATTCTTCTCACTTTCTAGG 232 | |
| | SEQID7 | ACCAGGCCGTGATGGCAGAGGCACTCCTGGAGAGAAGGGAGAAAGGAGAGATGCAGG 300 | |
| | SEQID8 SEQID9 | | |
| | | | |
| | SEQID5 | TCTTCTTGGTCCTAAGGGTGAGACAGGAGATGTTGGAATGACAGGAGCTGAAGGGCCACG 360 | |
| | SEQID6 | TCTTCTTGGTCCTAAGGGTGAGACAGGAGATGTTGGAATGACAGGAGCTGAAGGGCCACG 292 TCTTCTTGGTCCTAAGGGTGAGACAGGAGATGTTGGAATGACAGGAGCTGAAGGGCCACG 360 | |
| | SEQID7 SEQID8 | TCTTCTTGGTCCTAAGGGTGAGACAGGAGATGTTGGAATGACAGGAGCTGAAGGGCCACG 200 | |
| | SEQID9 | | |
| | | 100 A00 | |
| | SEQID5 SEQID6 | GGGCTTCCCCGGAACCCCTGGCAGGAAAGGAGAGCCTGGAGAAGCCGCTTATGTGTATCG 420 GGGCTTCCCCGGAACCCCTGGCAGGAAAGGAGAGCCTGGAGAAGCCGCTTATGTGTATCG 352 | |
| | SEQID7 | GGGCTTCCCCGGAACCCCTGGCAGGAAAGGAGAGCCTGGAGAAGCCGC 408 | |
| | SEQID8 | | |
| | SEQID9 | , | |
| | SEOID5 | CTCAGCGTTCAGTGTGGGGCTGGAGACCCGCGTCACTGTTCCCAATGTACCCATTCGCTT 480 | |
| | SEQIDS SEQIDS | CTCAGCGTTCAGTGTGGGGCTGGAGACCCGCGTCACTGTTCCCAATGTACCCATTCGCTT 410 | |
| | SEQID7 | GTCACTGTTCCCAATGTACCCATTCGCTT 437 | |
| | SEQID8 | ATGAGACC-TGGCCACTTTCTCCT 23 | |
| | SEQID9 | ATGAGACCTGGCCACTTTCTCCT 23 | |
| | SEQID5 | TACTAAGATCTTCTACAACCAACAGAATCATTATGACGGCAGCACTGGCAAGTTCTACTG 540 | |
| | SEQIDS SEOID6 | TACTAAGATCTTCTACAACCAACAGAATCATTATGACGGCAGCACTGGCAAGTTCTACTG 540 TACTAAGATCTTCTACAACCAACAGAATCATTATGACGGCAGCACTGGCAAGTTCTACTG 472 | |
| | SEQID7 | TACTAAGATCTTCTACAACCAACAGAATCATTATGACGGCAGCACTGGCAAGTTCTACTG 497 | |
| | SEQID8 | CATTTCTGTCTG-TACGATTGTCAG-TGGATCTGACGACACCAAAAG-GGCTCAGGATG 79 | |
| | SEQID9 | CATTTCTGTCTG-TACGATTGTCAGTGGATCTGACGACACCAAAAG-GGCTCAGGATG 79 | |
| | SPOTDS | CAACATTCCGGGACTCTACTACTTCTCTTACCACATCACGGTGTACATGAAAGATGTGAA 600 | |
| | SEQIDS SEOID6 | CARCATTCCGGGACTCTACTACTTCTCTTACCACATCACGGTGTACATGAAAGATGTGAA 500 CAACATTCCGGGACTCTACTACTTCTCTTACCACATCACGGTGTACATGAAAGATGTGAA 532 | |
| | SEQID7 | CAACATTCCGGGACTCTACTACTTCTCTTACCACATCACGGTGTACATGAAAGATGTGAA 557 | |
| | SEQIDS | CTACTGTTGCAAGCTCTCCTGTTCCTCTTAATCCTGCCCAGTCATGCCGAAGATGAC 136 | |
| | SEQID9 | CTACTGTTGCAAGCTCTCCTGTTCCTCTTAATCCTGCCCAGTCATGCCGAAGATGAC 136 | |

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| | * * * * * *** * * ****** * * * * * * * * | |
| SEQID5 | GGTGAGCCTCTTCAAGAAGGACAAGGCCGTTCTCTCACCTACGACCAGTATCAGGAAAA | |
| SEQID6 | GGTGAGCCTCTTCAAGAAGGACAAGGCCGTTCTCTTCACCTACGACCAGTATCAGGAAAA GGTGAGCCTCTTCAAGAAGGACAAGGCCGTTCTCTTCACCTACGACCAGTATCAGGAAAA | 592 |
| SEQID7 SEQID8 | GTTACTACAACTGAAGAGCTAGCTCCTGCTTTGGTCCCTCCACCCAAGGGAAC | 189 |
| SEQID9 | GTTACTACAACTGAAGAGCTAGCTCCTGCTTTGGTCCCTCCACCCAAGGGAAC | 189 |
| | * * * * **** * ** * * * * * * * * * * * | |
| SEOID5 | GAATGTGGACCAGGCCTCTGGCTCTGTGCTCCTCCATCTGGAGGTGGGAGACCAAGTCTG | 720 |
| SEQID6 | GAATGTGGACCAGGCCTCTGGCTCTGTGCTCCTCCATCTGGAGGTGGGAGACCAAGTCTG | 652 |
| SEQID7 | GAATGTGGACCAGGCCTCTGGCTCTGTGCTCCTCCATCTGGAGGTGGGAGACCAAGTCTG | |
| SEQID8 SEQID9 | TTGTGCAGGTTGGATGGCAGGCATCCCAGGACATCCTGGCCACAATGGCACACC TTGTGCAGGTTGGATGGCAGGCATCCCAGGACATCCTGGCCACATAAAAATATA | |
| 352109 | ** * * * *** * * *** | 245 |
| SEQID5 | GCTCCAGGTGTATGGGGATGGGGACCACAATGGACTCTATGCAGATAACGTCAACGACTC | 780 |
| SEQID6 | GCTCCAGGTGTATGGGGATGGGGACCACAATGGACTCTATGCAGATAACGTCAACGACTC | 712 |
| SEQID7 | GCTCCAGGTGTATGGGGATGGGGACCACAATGGACTCTATGCAGATAACGTCAACGACTC | 737 |
| SEQID8 SEQID9 | AGGCCGTGATGGCAGAGA-TGGCACTCCTGGAGAGAAGGGAGAGAAAGGA-GATGC | 297 |
| SEQID9 | ATTCGAGG-GGCATCCACCAGGCCGGCTGAATTGTGCCAA-AATAT | 287 |
| | TACATTTACTGGCTTTCTTCTCTACCATGATACCAACTGACTG | 040 |
| SEQID5 SEOID6 | TACATTTACTGGCTTTCTTCTCTACCATGATACCAACTGACTG | |
| SEQID7 | TACATTTACTGGCTTTCTTCTCTACCATGATACCAACTGACTG | 797 |
| SEQID8 | AGGTCTTCTTGGTCCTAAGGGTGAGACAGGAGATGTTGGAATGACAGGAGCTGAAGGGCC | 357 |
| SEQID9 | GGCACTTCCTGCAAGATAA | 306 |
| 20000 | TACACCAGGAGAATCATGGAACAGTCGACACACTTTCAGCTTAGTTTGAGAGATTGATT | 900 |
| SEQID5 SEQID6 | TACACCAGGAGAATCATGGAACAGTCGACACTTTCAGCTTAGTTTGAGAGATTGATT | 832 |
| SEOID7 | TACACCAGGAGAATCATGGAACAGTCGACACACTTTCAGCTTAGTTTGAGAGATTGATT | |
| SEQID8 | ACGGGGCTTCCCCGGAACCCCTGGCAGGAAAGGAGAGCCTGGAGAAGCCGCTTATGTGTA | 417 |
| SEQID9 | | |
| SEQID5 | TATTGCTTAGTTTGAGAGTCCTGAGTATTATCCACACGTGTACTCACTTGTTCATTAAAC | 960 |
| SEQID6 | TATTGCTTAGTTTGAGAGTCCTGAGTATTATCCACACGTGTACTCACTTGTTCATTAAAC | |
| SEQID7 | TATTGCTTAGTTTGAGAGTCCTGAGTATTATCCACACGTGTACTCACTTGTTCATTAAAC | 917 |
| SEQID8 | TCGCTCAGCGTTCAGTGTGGGGCTGGAGACCCGCGTCACTGTTCCCAATGTACCCATTCG | 477 |
| SEQID9 | | |
| SEQID5 | GACTTTATAAAAAATTTTGTGTTCCTAGTCCAGAAAAAAAGGCACTCCCTGGTCTCCA | 1020 |
| SEQID5 | GACTTTATAAAAAATAATTTTGTGTTCCTAGTCCAGAAAAAAAGGCACTCCCTGGTCTCCA | |
| SEQID7 | GACTTTATAAAAAATAATTTGTGTTCCTAGTCCAGAAAAAAAGGCACTCCCTGGTCTCCA | 977 |
| SEQID8 | CTTTACTAAGATCTTCTACAACCAACAGAATCATTATGACGGCAGCACTGGCAAGTTCTA | 537 |
| SEQID9 | , | |
| anave. | 003.0M0mm3.03.M00m3.003.5.M3.5.03.04.3.M02.5.5.3.M02.03.MMM000m3.M02.02.004403.03.3 | 1000 |
| SEQIDS SEQID6 | CGACTCTTACATGGTAGCAATAACAGAATGAAAATCACATTTGGTATGGGGGCTTCACAA CGACTCTTACATGGTAGCAATAACAGAATGAAAATCACATTTGGTATGGGGGCTTCACAA | |
| | CGACTCTTACATGGTAGCAATAACAGAATGAAAATCACATTTGGTATGGGGGCTTCACAA | |
| SEQID8 | CTGCAACATTCCGGGACTCTACATTTACTGGCTTTCTTCTCTACCATGATACCAACTGAC | 597 |
| SEQID9 | | |
| CRATRE | TATTCGCATGACTGTCTGGAAGTAGACCATGCTATTTTTCTGCTCACTGTACACAAATAT | 1140 |
| SEQID5 SEQID6 | TATTCGCATGACTGTCTGGAAGTAGACCATGCTATTTTTCTGCTCACTGTACACAAATAT TATTCGCATGACTGTCTGGAAGTAGACCATGCTATTTTTCTGCTCACTGTACACAAATAT | |
| SEQID7 | TATTCGCATGACTGTCTGGAAGTAGACCATGCTATTTTTCTGCTCACTGTACACAAATAT | 1097 |
| SEQIDS | TGCAACTACCCATAGCCCATACACCAGGAGAATCATGGAACAGTCGACACACTTTCAGCT | |
| SEQID9 | | |
| -9-5-4 | | |
| SEQID5 | TGTTCACATAAACCCTATAATGTAAATATGAAATACAGTGATTACTCTCTCACAGGCTG | |
| SEQID6 SEQID7 | TGTTCACATAAACCCTATAATGTAAATATGAAATACAGTGATTACTCTTCTCACAGGCTG TGTTCACATAAACCCTATAATGTAAATATGAAATACAGTGATTACTCTTCTCACAGGCTG | |
| SEQID? | TAGTTTGAGAGATTGATTTTATTGCTTAGTTTGAGAGTCCTGAGTATTATCCACACGTGT | |
| SEQID9 | | |

| SEQID5 SEQID6 SEQID7 SEQID8 SEQID9 | ASTGTATGLATTCTAMAGACCGATAGTATTAAGTGGTAGGGATAAATTGGAAAAAAA 1260 AGTGTATGAATTCTAAAGCCCATAGTATTAAGTGGTAGGAATAAATTGG |
|--|--|
| SEQID5 SEQID6 SEQID7 SEQID8 SEQID9 | AAAAAAAAAAAAAACTTTAGAGCACACTGGGGGCGCTTACTAG |
| SEQID5 SEQID6 SEQID7 SEQID8 SEQID9 | TGGTATGGGGGCTTCACAATATTCGCATGACTGTCTGGAAGTAGACCATGCTATTTTTCT 897 |
| SEQID5 SEQID6 SEQID7 SEQID8 SEQID9 | GCTCACTGTACACAAATATTGTTCACATAAACCCTATAATGTAAATATGAAATACAGTGA 957 |
| SEQID5 SEQID6 SEQID7 SEQID8 SEQID9 | TTACTCTTCTCACAGGCTGAGTGTATGAATTCTAAAGACCCATAAGTATTAAAGTGGTAG 1017 |
| SEQID5 SEQID6 SEQID7 SEQID8 SEQID9 | GGATAAATTGG 1028 |

| Fig 8. | | |
|--------------------|--|--|
| SEQID10 SEQID11 | ACTCTGGATGGGTGCTGTTTAGACANACGCCGTCTCCTATATAAGACCTGACAGCACAGG ACTCTGGATGGGTGCTGTTTAGACANACGCCGTCTCCTATATAAGACCTGACAGCACAGG | |
| SEQID10 SEQID11 | CACCACTCCGGCAGGACTGCAGGCCCACCTGTCTGCAACCCAGCTGAGGCCATGCCCTCC CACCACTCCGCCAGGACTGCAGGCCCACCTGTCTGCAACCCAGCTGAGGCCATGCCCTCC | |
| SEQID10 SEQID11 | CCAGGGACGGTCTGCAGCCTCCTGCTCCTCGGCATGCTCTGGCTGG | |
| SEQID10 SEQID11 | GGCTCCAGCTTCCTGAGCCCTGAACACCAGAGAGTCCAGCAGAGAAAGGAGTCGAAGAAG GGCTCCAGCTTCCTGAGCCCTGAACACCAGAGAGTCCAGGTGAGACCTCCCCACAAAG | |
| SEQID10 SEQID11 | CCACCAGCCAAGCTGCAGCCCCGAGCTCTAGCAGGCTGGCT | |
| SEQID10 SEQID11 | CAAGCAGAAGGGGCAGAGGATGACTGGAAGTCCGGTTCAACGCCCCCTTTGATGTTGGA GGAGCAGCACCCCATCTC-TGGGCTTCA-GTCTTCTCCCACAGGACAAAGGACTCTGG | |
| SEQID10 SEQID11 | ATCAAGCTGTCAGGGGTTCAGTACCAGCACGCACAGCCAGGCCCTGGGGAAGTTTCTTC TCTGACCTCACTGTTTCTGGAAGGACATGGGGGGCTTAGAGCCCTAAACAGACTGTTTC | |
| SEQID10 SEQID11 | AGGACATCCTCTGGGAAGAG-GCCAAAGAGGCCCCACCGACAAGTGATCGCCCACAAGC CCCTTCCAGCAGAGAAAGGAGTCGAAGAAGCACCAGCCAAGCTGCAGCCCCGACC | |
| SEQID10 SEQID11 | CTTACTCACCTCTCTAAGTTTAGAAGCGCTCATCTGGCTTTTCGCTTGCTT | |
| SEQID10 | AACTCCCACGACTGTTGTACAAGCTCAGGAGGCGAATAAATGTTCAAACTGTATGCTGAT AGGGGCAGAGGATGAACTGGAAGTCCGGGTCGGTACCTCTGCAG-TTTTATGCTTCT | |
| SEQID10 SEQID11 | GTTCCAAATGGGAATTTATTTCAAAGAGGAAAAGTTAATATTTTACTTTAAAAAAATCAA GTGGCAGCGAGGGGGGGGGG | |
| SEQID10 SEQID11 | AATAATAC 665 | |

| rig 9. | | |
|-----------|--|-----|
| | | |
| SEQID15 | | c0 |
| SEQID17 | GGTGAAAAGGGAAAACCTGCCCAAATCCAGTTTTTGTTTCAGTAACTTCCTTTGAGACAA | 00 |
| SEQID16 | | |
| SEQID12 | | |
| SEQID14 | A | |
| SEQIU18 | *************************************** | |
| SEOID13 | | |
| | | |
| SEQID15 | | |
| SEQID17 | AGTCAGGAATCTGAGAGTAAGCACCTGCTAAGGGTGGGACAGGGGCTCTGTCTG | 120 |
| | AGICAGGATCI GAGAGITAGGATGGATGGATGGATGGATGGATGGATGGAT | 120 |
| SEQID16 | | |
| SEQID12 | | |
| SEQID14 | | |
| SEQID18 | | |
| SEQID13 | | |
| | | |
| SEQID15 | | |
| SEQID17 | CTCTCCCATGTTAAGAGCTAACAATAGTAATGGATAAGTCTCCAGGGCAACCAGGACCAC | 180 |
| SEQID16 | | |
| SEQID12 | | |
| SEQID14 | | |
| SEQID18 | | |
| SEQID13 | | |
| SEQIDI S | | |
| SEQID15 | | |
| | TTCCAAGCATTCCTGTCTTGGGCTGCCTCGAGGGCTCCTCTGTCCTTTGGGGAGTACTGA | 240 |
| SEQID17 | TICCAMOCATICCTGTCTTGGGCTGCCTCGGCTCTCTCTCTTTTGGGGTGTGTGT | |
| SEQID16 | | |
| SEQID12 | | |
| SEQID14 | | |
| SEQID18 | | |
| SEQID13 | | |
| | | |
| SEQID15 | | |
| SEQID17 | TTGATGCCTGATGCCCAGAACTGGCCCACTCTGGCTTCTCTTTGGAGCTGTCTCTGCAGG | 300 |
| SEQID16 | ~-~ | |
| SEQID12 | | |
| SEQID14 | | |
| SEQID18 | | |
| SEQID13 | | |
| | | |
| SEQID15 | GCA | 3 |
| SEOID17 | CGCCTTCTGGCTGCCAGCTCGGTCCTAGCATAAGGGACTTCTTCCTTGGCCTGGGTTTCA | 360 |
| SEQID16 | GCA | 3 |
| SEQID12 | GCA | 3 |
| SEQID14 | GCA | 3 |
| SEQID18 | GCA | |
| SEOID13 | | |
| SEQIDIS | ** | |
| SEQID15 | CTGCCTGAGACTACTCCAGCCTCCCCGTCCCTGATGTCACAATTCAGAGGCTGCTGC | 61 |
| | CCTTCTTGTATCAGGTGGCAGACCAGCTGGTTTCAGTCCCAAATCAG-GTCTTCTGA | |
| SEQID17 | CTGCCTGAGACTACTCCAGCCTCCCCGTCCCTGATGTCACAATTCAGAGGCTGCTGC | 61 |
| SEQID16 | | |
| SEQID12 | CTGCCTGAGACTACTCCAGCCTCCCCGTCCCTGATGTCACAATTCAGAGGCTGCTGC | |
| SEQID14 | CTGCCTGAGACTACTCCAGCCTCCCCGTCCCTGATGTCACAATTCAGAGGCTGCTGC | |
| SEQID18 | CTGCCTGAGACTACTCCAGCCTCCCCGTCCCTGATGTCACAATTCAGAGGCTGCTGC | |
| SEQID13 | CTGCCTGAGACTACTCCAGCCTCCCCGTCCCTGATGTCACAATTCAGAGGCTGCTGC | 61 |
| | * ** * * *** * ** ** ** ** ** *** | |
| SECTION S | CTGCTTAGGAGGTTGTAGAAAGCTCTGTAGGTTCTCTGTGTGTCCTACAGGAGTCT | 110 |
| SEQID15 | CTCCTCCCAGAAACCAACCAACTTCTGAGCAGGAAATC-CTGCCCCTCCCCAAAGAGTGG | |
| SEQID17 | | |
| SEQID16 | CTGCTTAGGAGGTTGTAGAAAGCTCTGTAGGTTCTCTCTGTGTCTCCTACAGGAGTCT | |
| SECTD12 | CTGCTTAGGAGGTTGTAGAAAGCTCTGTAGGTTCTCTGTGTGTGTCCTACAGGAGTCT | 119 |

| SEQID14 SEQID18 SEQID13 | CTGCTTAGGAGGTTGTAGAAAGCTCTG-TAGGTTCTCTCTGTGTGTCAAGGAGTCT 119 CTGCTTAGGAGGTTGTAGAAAGCTCTG-TAGGTTCTTCTGTGTGTCCTAAAGGAGTCT 119 CTGCTTAGGAGGTTGTAGAAAGCTCTG-TAGGTTCTTCTTGTGTGCTACAAGGAGTCT 119 |
|-------------------------------|--|
| CHOTP15 | TCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAAATATCTCCTCCCCATTCTGGG 177 |
| SEQID15 | GAAACCGCAAAGGAAGAGAGATGAAACAGAAGGAAAGGCAGAGGAGGAGGAGAGAGA |
| SEQID17 | |
| SEQID16 | TCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAAATATCTCCTCCCCATTCTGGG 177 |
| SEQID12 | TCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAATATCTCCCCCCATTCTGGG 177 |
| SEQID14 | TCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAATATCTCCTCCCCATTCTGGG 177 |
| SEQID18 | TCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAAATATCTCCTCCCCATTCTGGG 177 |
| SEQID13 | TCAGGCCAGCTCCCTGTCGGATGGCTTTTATGAAAAATATCTCCTCCCCATTCTGGG 177 |
| | * ** * * **** * * ** |
| SEQID15 | GCTCTTCATGGCCTACTACTACTATTCTGCAA-ACGAGGAATTCAGACC 225 |
| SEQID17 | GAGAAGAGAAAAAAGAAAAAAGAACATCAATAAAAAGAAGTCAGATTTGTTCGAAATC 595 |
| SECID16 | GCTCTTCATGGCCTACTACTACTATTCTGCAA-ACGAGGAATTCAGACC 225 |
| SEQID12 | GCTCTTCATGGCCTACTACTACTATTCTGCAA-ACGAGGAATTCAGACC 225 |
| SEQID14 | GCTCTTCATGGCCTACTACTACTATTCTGCAA-ACGAGGAATTCAGACC 225 |
| SEQID18 | GCTCTTCATGGCCTACTACTACTATTCTGCAA-ACGAGGAATTCAGACC 225 |
| SEQID13 | GCTCTTCATGGCCTACTACTACTATTCTGCAA-ACGAGGAATTCAGACC 225 |
| 3521013 | * |
| SEQID15 | AGAGATGCTCCAAGGAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGGAAG 282 |
| SEQID17 | TTGAGAGATGCTCCAAGGAAAGAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGGAAG 655 |
| SEQID16 | AGAGATGCTCCAAGGAAAGAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGGAAG 282 |
| SEOID12 | ~agagatgctccaaggaaagaaagtgattgtcacaggggccagcaaagggatcggaag 282 |
| SEQID14 | AGAGATGCTCCAAGGAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGGAAG 282 |
| SEQID18 | AGAGATGCTCCAAGGAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGGAAG 282 |
| SEQID13 | AGAGATGCTCCAAGGAAAGAAAGTGATTGTCACAGGGGCCAGCAAAGGGATCGGAAG 282 |
| SEGISTS | ************* |
| SECID15 | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAA 342 |
| | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAA 715 |
| SEQID17 | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAA 713 |
| SEQID16 | |
| SEQID12 | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAA 342 |
| SEQID14 | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAA 342 |
| SEQID18 | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAA 342 |
| SEQID13 | AGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAG 336 |
| | AGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTA 402 |
| SEQID15 | AGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACTA 402 AGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTA 775 |
| SEQID17 | |
| SEQID16 | CTCAGCACACTA 348 |
| SEQID12 | AGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTA 402 |
| SEQID14 | AGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTA 402 |
| SEQID18 | AGAAACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTA 402 |
| SEQID13 | CTCAGCACACTA 348 |
| | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 462 |
| SEQID15 | |
| SEQID17 | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 835 |
| SEQID16 | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 408 |
| SEQID12 | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 462 |
| SEQID14 | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 462 |
| SEQID18 | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 462 |
| SEQID13 | CATTGCTGGCACCATGGAAGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAA 408 |
| | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCAACACTTCTTTGAATCT 522 |
| SEQID15 | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCACACTTCTTTGAATCT 522 GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACACACCACACACTTCTTTGAATCT 895 |
| SEQID17 | |
| SEQID16 | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCAACACTTCTTTGAATCT 468 |
| SEQID12 | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCAACACTTCTTTGAATCT 522 |
| SEQID14 | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCAACACTTCTTTGAATCT 522 |
| SEQID18 | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCAACACTTCTTTGAATCT 522 |
| SEQID13 | GCTCATGGGAGGACTAGACATGCTCATTCTCAACCACATCACCAACACTTCTTTGAATCT 468 |
| CHOTP1 F | mmmmas mcamamamas agamamaga |
| SEQID15 | TTTTCATGATGATATTCACCATGTGCGC 550 |
| SEQID17 | TTTTCATGATGATATTCACCATGTGCGCAAAAGCATGGAAGTCAACTTCCTCAGTTACGT 955 |
| SEQID16 | TTTTCATGATGATATTCACCATGTGCGCAAAAGCATGGAAGTCAACTTCCTCAGTTACGT 528 |

| SEQID12 SEQID14 SEQID18 SEQID13 | TTTCATGATGATATTCACCATGTGCGCAAAAGCATGGAAGCATGCAACTTCCTCAGTTACGT TTTCATGATGATTCACCATGTGCGCGAAAAGCATGGAAGTCAACTCCTCAGTTACGT TTTCATGATGATATTCACCATGTGCGCGAAAAGCATGGAAGTCAACTTCCTCAGTTACGT TTTCATGATGATATTCACCATGTGCGCGAAAGCATGGAAGTCAACTTCCTCAGTTACGT TTTCATGATGATATTCACCATGTGCGCGAAAGCATGGAAGTCAACTTCCTCAGTTACGT | 582 |
|--|--|---|
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID13 | GTCCTGACTGACCARGCAATGGAAGCATTGTTGCGT GGTCCTGACTGTACCCATCCCAT | 642 642 642 |
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID13 | CTCCTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCC-TATTCTGCAAGCAAGT CTCCTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCC-TATTCTGCAAGCAAGT CTCCTCTCTGGCTGGGAAATGGGCTTATCCAATGGTTGCTGCC-TATTCTGCAAGCAAGT CTCCTCTCTGGCTGGGAAATGGCTTATCCAATGGTTGCTGCC-TATTCTGCAAGCAAGT CTCCTCTCTGGCTGGGAAATGGCTTATCCAATGGTTGCTGCC-TATTCTGGAAGCAAGT CTCCTCTCTGGTGGAACTGGCTTATCCAATGGTTGCTGCC-TATTCTGGAAGCAAGT CTCCTCTCTGGTGGA | 1074 647 701 701 656 |
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID13 | TIGGITTIGGATGGGTTCTTCTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATC TTGCTTTGGATGGGTTCTTCTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATC TTGCTTTGGATGGGTTCTTCTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATC TTGCTTTGGATGGGTTCTTCTCCTCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATC TTGCTTTGGATGGGTTCTTCTCCTCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATC A-GINGTTGATGG | 1134 707 761 761 |
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID18 SEQID13 | TATCAATCACTCTCTGTGTTCTTGGCCTCATAGACACAGAAACAGCCATG-AAGGCAGTT | 766 1193 766 820 820 676 |
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID13 | TCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGGAGATCATCAAA TCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGGAGATCATCAAA TCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGAGATCATCAAA TCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGAATGTGCCCTGAGATCATCAAA TCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGAGATCATCAAA TCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGAGATCATCAAA | 1253 826 880 880 |
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID13 | GGGGGGCTCTGCGCCAAGAAGAAGTGTATTATGACAGCTCACTCTGGACCACTCTTCTG GGGGACCTCTGCGCCAAGAAGAAGTGTATTATGACAGCTCACTCTGGACCACTTTCTCTG GGGGGACCTCTGGCCCAAGAAGAAGTGTATTATGACAGCTCACTCTGGACCACTTTCTG GGGGGACCTCTGGCCCAAGAAGAAGTGTATTATGACAGCTCACTCTGGACCACTCTTCTG GGGGGACCTCTGCCCCAAGAAGAAGTGTATTATGACAGCTCACTCTGGACCACTCTTCTG GGGGGACCTTGCGCCAAGAAGAAGTGTATTATGACAGCTCACTCTGGACCACTCTTCTG | 1313 886 940 940 |
| SEQID15 SEQID17 SEQID16 SEQID12 SEQID14 SEQID18 SEQID13 | ATCAGAAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGAC ATCAGAAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGAC ATCAGAAATCCATGCAGGAAGATCCTGGAATTTCTTACTCAACGAGCTATAATATGGAC ATCAGGAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGAC ATCAGGAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGAC ATCAGGAATTCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGAC ATCAGGAAATCCATGCAGGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGAC | 1373 946 1000 999 |
| SEQID15 SEQID17 | AGATTCATAAACAAGTAGGAACTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGACTG AGATTCATAAACAAGTAGGAACTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGACTG | |

| SEQID16 SEQID12 | AGATTCATAAACAAGTAGGAACTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGACTG AGATTCATAAACAAGTAGGAACTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGACTG | |
|--------------------|--|------|
| SEQID14 | GGGACTG | |
| SEQID18 | AGATTCATAAACAAGTAGGAACTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGACTG | 916 |
| SEOID13 | | |
| | | |
| SEQID15 | TTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTTCCCAGAGTGTCCCCAG | |
| SEQID17 | TTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTTCCCAGAGTGTCCCCAG | |
| SEQID16 | TTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTTCCCAGAGTGTCCCCAG | |
| SEQID12 | TTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTTCCCAGAGTGTCCCCAG | |
| SEQID14 | TTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTTCCCAGAGTGTCCCCAG | |
| SEQID18 | TTCTGTCTCATGTTTATCTGAGCTCTTATCTATGAAGACATCTTCCCAGAGTGTCCCCAG | 976 |
| SEQID13 | | |
| SEOID15 | AGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCAAA | 1126 |
| SEOID17 | AGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCAAA | |
| SEOID16 | AGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCAAA | |
| SEQID12 | AGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCAAA | |
| SEQID14 | AGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCAAA | |
| SEQID18 | AGACATGCAAGTCATGGGTCACACCTGACAAATGGAAGGAGTTCCTCTAACATTTGCAAA | |
| SEQID13 | | |
| | | |
| SEQID15 | ATGGAAATGTAATAATGAATGTCATGCACCGCTGCAGCCAGC | |
| SEQID17 | | 1613 |
| SEQID16 | ATGGAAATGTAATAATGAATGTCATGCACCGCTGCAGCCAGC | |
| SEQID12 | | 1240 |
| SEQID14 | | 1186 |
| SEQID18 | ATGGAAATGTAATAATGAATGTCATGCACCGCTGCAGCCAGC | 1096 |
| SEQID13 | | |
| SEOID15 | AGTARACATAGGTATAATTACCAGATAGTTATATTARATTTATATCTTATATATATATAAT | 1246 |
| SEQID17 | | 1673 |
| SEQID16 | AGTAAACATAGGTATAATTACCAGATAGTTATATTAAATTTATATCTTATATATA | 1246 |
| SEQID12 | AGTAAACATAGGTATAATTACCAGATAGTTATATTAAATTTATATCTTATATAATAAT | 1300 |
| SEQID14 | AGTAAACATAGGTATAATTACCAGATAGTTATATTAAATTTATATCTTATATATA | 1246 |
| SEQID18 | AGTAAACATAGGTATAATTACCAGATAGTTATATATATTATATCTTATATATA | 1156 |
| SEQID13 | | |
| | | |
| SEQID15 | ATGTGATGATTAATACAATATTAATTATAATAAAGGTCACATAAACTTTATAAATTCATA ATGTGATGATTAATACAATATTAATTAATAAAGGTCACATAAACTTTATAAATTCATA | |
| SEQID17 | ATGTGATGATTAATACAATATTAATTAATAAAAGGTCACATAAACTTTATAAATTCATA ATGTGATGATTAATACAATATTAATTAATAAAAGGTCACATAAACTTTATAAATTCATA | |
| SEQID16 SEOID12 | ATGTGATGATTAATACAATATTAATTATAATAAAGGTCACATAAACTTTATAAATTCATA | |
| SEQIDI2 SEOID14 | ATGTGATGATTAATACAATATTAATTAATAAAAGGCACATAAACTTTATAAATTCATA | |
| SECID18 | ATGTGATGATTAATACAATATTAATTATAATAAAAGGTCACATAAACTTTATAAATTCATA | |
| SEQID13 | ATGEORIGATIAN TANTATIAN TANTAN ANGOTO ACATAMAGTIKA AMATICATA | 1210 |
| | | |
| SEQID15 | ACTGGTAGCTATAACTTGAGCTTATTCAGGATGGTTTCTTTAAAACCATAAACTGTACAA | 1366 |
| SEQID17 | ACTGGTAGCTATAACTTGAGCTTATTCAGGATGGTTTCTTTAAAACCATAAACTGTACAA | |
| SEQID16 | ACTGGTAGCTATAACTTGAGCTTATTCAGGATGGTTTCTTTAAAACCATAAACTGTACAA | |
| SEQID12 | ACTGGTAGCTATAACTTGAGCTTATTCAGGATGGTTTCTTTAAAACCATAAACTGTACAA | |
| SEQID14 | ACTGGTAGCTATAACTTGAGCTTATTCAGGATGGTTTCTTTAAAACCATAAACTGTACAA | |
| SEQID18 | ACTGGTAGCTATAACTTGAGCTTATTCAGGATGGTTTCTTTAAAACCATAAACTGTACAA | 1276 |
| SEQID13 | | |
| | | |
| SEQID15 | ATGAAATTTTCAATATTTGTTTCTTAT 1394 | |
| SEQID17 | ATGAAATTTTCAATATTTGTTTCTTAT 1821 | |
| SEQID16 | ATGAAATTTTCAATATTTGTTTCTTAT 1394 | |
| SEQID12 | ATGAAATTTTCAATATTTGTTTCTTAT 1448 | |
| SEQID14 | ATGAAATTTTCAATATTTGTTTCTTAT 1394 | |
| SEQID18 | ATGAAATTTTCAATATTTGTTTCTTAT 1304 | |
| SEQID13 | | |

| Fig 10. | | |
|-------------------------------|---|-------------------|
| SEQID19 SEQID20 SEQID21 | ACTGTTGGCCTCTGGAWTCAGAGGCTGCTGCCTGGGAGGTTGTAGAAAGCTCTGCA ACTGTTGGCCTCTGGAWTCAGAGGCTGCTGCCTGGGAGGGTGTAGAAAAGCTCTGCA ACTGTTGGCCTTGGAWTCAGAAGGCTGCTGCCTGGCAGGTTTGTAGAAAGCTCTGCA | 60 60 60 |
| SEQID19 SEQID20 SEQID21 | GGTTTTCTTCGTGTGTCCTACAGGGCGCCCTGAGCCAGGTCCCTGTTTGATGGCAGTTAT GGTTTTCTTCGTGTGTCCTACAGGGCGCCCTGAGCCAGGTCCCTGTTTGATGGCAGTTAT GGTTTTCTTCGTGTGTCTACAAGGGCGCCCTGAGCCAGGTCCTTTTGATGGCAGTTAT GGTTTCTTCGTGTGTGTCTACAAGGGGGCGCCCTGAGCCAGGTCCTTTTTATGGCAGTTAT GGTTTCTTCGTGTGTGTGTACAAGGGGGCCCCTGAGCCAGGTCCTCTTTTGATGGCAGTTAT | 120 120 120 |
| SEQID19 SEQID20 SEQID21 | GRARARTACCTCCTCCCGATCCTGGTGCTCTTCCTGGCCTACTACTACTATTCTACAA GRARARTACCTCCTCCGGATCCTGGTGCTCTTCCTGGCCCTACTACTACTATTCTACAA GRARARTACCTCCTCCCGGATCCTGGTGCTCTTCCTGGCCTACTACTACTATCTACAAA | 180 |
| SEQID19 | TGAAGAGTTCAGACCAGAAATGCTCCAGGGAAAGAAAGTGATTGTCACTGGGGCCAGCAA | |
| SEQID20 SEQID21 | TGRAGAGTTCAGAC TGRAGAGTTCAGACCAGARATGCTCCAGGGARAGRAGGTGATTGTCACTGGGGCCAGCAR | 194 240 |
| SEQID19 | AGGGATTGGAAGAGAAATGGCATATCATCTGTCAAAAATGGGAGCCCATGTGGTATTGAC | 300 |
| SEQID20 SEQID21 | AGGGATTGGAAGAGAAATGGCATATCATCTGTCAAAAATGGGAGCCCATGTGGTATTGAC | 300 |
| SEQID19 | TGCCAGGTCGGAGGAAGGTCTCCAGAAGGTAGTGTCTCGCTGCCTTGAACTCGGAGCAGC | 360 |
| SEQID20 | TCCAGAAGGTAGTGTCTCGCTGCCTTGAACTCGGAGCAGC | 234 |
| SEQID21 | TGCCAGGTCGGAGGAAGGTCTCCAGAAGGTAGTGTCTCGCTGCCTTGAACTCGGAGCAGC | 360 |
| SEQID19 | | 420 |
| SEQID20 SEQID21 | CTCTGCTCACTACATTGCTGGCACTATGGAAGACATGACATTTGCGGAGCAATTTATTGT CTCTGCTCACTACATTGCTGGCACTATGGAAGACATGACATTTGCGGAGCAATTTATTGT | 420 |
| SEQID19 | | 480 |
| SEQID20 SEQID21 | | 354 480 |
| SEQID19 | CTCGCTGTCTCTCCATGACGACATCCACTCTGTGCGAAGAGTCATGGAGGTCAACTT | 540 |
| SEQID20 SEQID21 | CTCGCTGTCTCTCCATGACGACATCCACTCTGTGCGAAGAGTCATGGAGGTCAACTT CTCGCTGTCTCTTCCATGACGACATCCACTCTGTGCGAAGAGTCATGGAGGTCAACTT | 540 |
| SEQID19 | | 600 |
| SEQID20 SEQID21 | CCTCAGCTACGTGGTCATGAGCACAGCCGCCTTGCCCATGCTGAAGCAGAGCAATGGCAG | 474 600 |
| SEQID19 | CATTGCCGTCATCTCCTTCGCTGGGAAAATGACCCAGCCTATGATTGCTCCCTACTC CATTGCCGTCATCTCCTTCCTTGGCTGGGAAAATGACCCAGCCTATGATTGCTCCCTACTC | 660 534 |
| SEQID20 SEQID21 | CATTSCCGTCATCTCTCTTGGTGGGGAAATGACCAGCTATATTTGCTGCTATCTACCCATCCTACTCACCAGGAAGTC | 656 |
| SEQID19 | ${\tt TGCAAGCAAGTTTGCTCTGGATGGGTTCTTTTCCACCATTAGAACAGAACTCTACATAAC}$ | 720 |
| SEQID20 SEQID21 | TGCAAGCAAGTTTGCTCTGGATGGGTTCTTTTCCACCATTAGAACAGAACTCTACATAACGCAGTGTTACTCCTGACTCCGGCGGCCCGTGATTAATATCAC *** ** ** ** ** ** ** ** ** ** ** ** ** | 698 |
| SEQID19 | | 780 654 |
| SEQID20 SEQID21 | CAAGGTCAACGTGTCCATCACTCTCTGTGTCCTTGGCCTCATAGACACAGAAACAGCTAT CAGCCACACACAATGGAC-TGGAACCCTGTATCGATCTGGTGGGATTGGATATAACGGA ** ** ** * * * * * * * * * * * * * * * | |
| SEQID19 | GAAGGAAATCTCTGGGATAATTAACGCCCAAGCTTCTCCCAAGGAGGAGTGCGCCCTG | |
| SEQID20 SEQID21 | GAAGGAAATCTCTGGGATAATTAACGCCCAAGCTTCTCCCAAGGAGGAGTGCGCCCTG CATAGAATTACTCCTGAGACTACCAGAACTGAATAGTTCAAATCAAA | |
| SPUIDEI | CUINGUNITUCICCIQUANCINCCUANCIGNA INGIICUNNICHANICAIGCC | 500 |

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| SEQID19 | GAGATCATCAAAGGCACAGCTCTACGCAAAAGCGAGGTGTACTATGACAAATCGCCTTTG | |
|---------|--|------|
| SEQID20 | GAGATCATCAAAGGCACAGCTCTACGCAAAAGCGAGGTGTACTATGACAAATCGCCTTTG | 772 |
| SEQID21 | -AGAATATCAGACAAATCCAAATGGCAAAAC-AGTTGCA | 845 |
| | *** *** ** ** * * * * * * * * * * | |
| SEQID19 | ACTCCAATCCTGCTTGGGAACCCAGGAAGGAAGATCATGGAATTTTTTTCATTACGATAT | |
| SEQID20 | ACTCCAATCCTGCTTGGGAACCCAGGAAGGAAGATCATGGAATTTTTTTCATTACGATAT | 832 |
| SEQID21 | | |
| SEQID19 | TATAATAAGGACATGTTTGTAAGTAACTAGGAACTCCTGAGCCCTGGTGAGTGGTCTTAG | 1018 |
| SEQID20 | TATAATAAGGACATGTTTGTAAGTAACTAGGAACTCCTGAGCCCTGGTGAGTGGTCTTAG | 892 |
| SEQID21 | | |
| SEQID19 | AACAGTCCTGCCTGATACTTCTGTAAGCCCTACCCACAAAGTATCTTTCCAGAGATACA | 1078 |
| SEQID16 | AACAGTCCTGCCTGATACTTCTGTAAGCCCTACCCACAAAAGTATCTTTCCAGAGATACA | 952 |
| SEQID21 | | |
| SEQID19 | CAAATTTTGGGGTACACCTCATCATGAGAAATTCTTGCAACACTTGCACAGTGAAAATGT | 1138 |
| SEQID20 | CAAATTTTGGGGTACACCTCATCATGAGAAATTCTTGCAACACTTGCACAGTGAAAATGT | 1012 |
| SEQID21 | | |
| SEQID19 | AATTGTAATAAATGTCACAAACCACTTTGGGGCCTGCAGTTGTGAACTTGATTGTAACTA | 1198 |
| SEQID20 | AATTGTAATAAATGTCACAAACCACTTTGGGGCCTGCAGTTGTGAACTTGATTGTAACTA | 1072 |
| SEQID21 | | |
| SEQID19 | TGGATATAAACACATAGTGGTTGTATCGGCTTTACCTCACACTGAATGAA | 1258 |
| SEQID20 | TGGATATAAACACATAGTGGTTGTATCGGCTTTACCTCACACTGAATGAA | 1132 |
| SEQID21 | | |
| SEQID19 | CTAATGTAACATTAAATAATAAAGGTAATATCAACTTTGTAAATGCA 1307 | |
| SEQID20 | CTAATGTAACATTAAATATAAAGGTAATATCAACTTTGTAAATGCA 1181 | |
| | | |